

# PATENT ABSTRACTS OF JAPAN

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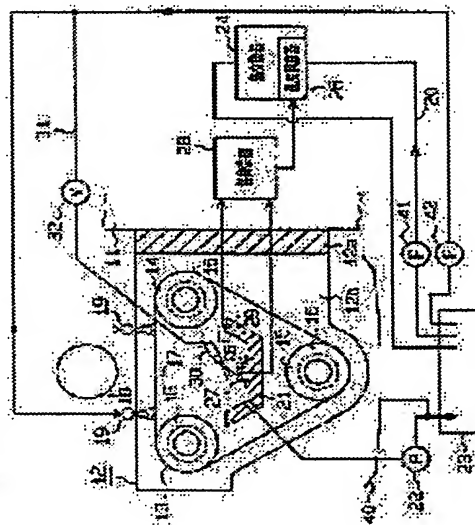
ISHIZUKA SATOSHI

(54) WIRE SAW

(57)Abstract:

PROBLEM TO BE SOLVED: To speedily detect temperature of working liquid immediately after it passes a working part, to precisely adjust and control cutting motion in accordance with its temperature detected result and to maintain working precision of a work constant.

SOLUTION: This wire saw supports a plural number of rollers 13, 14, 15 for working on a bracket 12 and supports a wire 17 between the rollers 13, 14, 15 for working in a large number of cycles. A work 18 is cut by the wire 17 by pressing the work 18 on the wire 17 and supplying working liquid between the wire 17 and the work 18. A receiver pan 21 to receive working liquid is provided immediately under the rollers 13, 14 for working, and a temperature sensor 26 to detect temperature of working liquid immediately after it passes a working part is provided on the receiver pan 21. Cutting motion is controlled by a control device 28 in accordance with a detection result of the temperature sensor 26.



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